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DEPARTMENT OF NATURAL RESOURCES

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Division of Oil, Gas and Mining

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M051008

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March 2, 2009

Mike Dalley
Staker Parsons Companies
2350 S 1900 W
Ogden Utah 84409

Subject: Third Review of Notice of Intention to Commence Large Mining Operations, Daniels Canyon Pit Mine, M0510008, Wasatch County, Utah

Dear Mr. Dalley:

The Division has completed a review of your Notice of Intention to Commence Large Mining Operations for the Daniels Canyon Pit mine, located in Wasatch county, Utah, which was received September 25, 2008. The attached comments will need to be addressed before tentative approval may be granted.

We appreciate the efforts you made to address comments in the previous review. There are still a few items that need to be resolved, but a lot of progress has been made to complete this process.

The comments are listed under the applicable minerals rule heading; please format your response in a similar fashion. Please address only those items requested in the attached technical review by sending replacement pages of the original mining notice using **redline and strikeout** text, so we can see what changes have been made. After the notice is determined technically complete and we are prepared to issue final approval, we will ask that you send us two clean copies of the complete and corrected plan. Upon final approval of the permit, we will return one copy stamped "approved" for your records.

The Division will suspend further review of the Notice of Intention until your response to this letter is received. If you have any questions in this regard please contact me at (801)-538-5261 or, Leslie Heppler at (801)-538-5257, Lynn Kunzler at (801)-538-5310, Tom Munson at (801)-538-5321, or Wayne Western at 801-538-5263. Thank you for your cooperation in completing this permitting action.

Sincerely,

Paul B. Baker
Minerals Program Manager

PBB lah vs
Attachment: Review
P:\GROUPS\MINERALS\WP\M051-Wasatch\M0510008-DanielsCyn\Final\REV3-2651-01272009.doc



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THIRD REVIEW OF NOTICE OF INTENTION TO COMMENCE LARGE MINING OPERATIONS

Daniels Canyon Pit Mine

M0510081
March 2, 2009

General Comments:

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
1	Table of Content	Under Appendix F in the table of contents, the Division requests that you include a list of required permits and the status of these permits	LAH	

R647-4-105 - Maps, Drawings & Photographs

105.2 Surface facilities map

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
2	5a	Figure 5a only shows existing facilities and nothing that will be included later as the pit expands. This map or another one should show proposed disturbances and features.	LAH	

105.3 Drawings or Cross Sections (slopes, roads, pads, etc.)

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
3	Figure 7	Label Post Mining/ Reclamation line as "Maximum Slope Angle 2H:1V" The Division recommends a small final perimeter berm.	LAH	
4	Figure 9	More description is needed on the figure. Is the figure for "during" mining? The text clearing indicates a final slope of 2H:1V. As shown bond calculations would increase for the worst-case scenario. Toe to crest slope exceeds the standards of 45 degree, the Division recommends including a slope stability analysis with an adequate factor of safety.	LAH	

R647-4-106 - Operation Plan

106.1 Type of operations conducted, mining method, processing etc.

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
5	Page 5, para 4	Include a commitment to remove all available topsoil	LAH	
6	Page 9 last para	"... 200-foot or larger" define further, as written it is unclear, perhaps rewrite as 200-foot long and a minimum height of x feet, to comply with a minimum MSHA requirement. Note on page 17 the berm as written has different dimensions (300ft) and then again on page 25 the berm is now 500 ft long. Match to berm on Figure 5a	LAH	

106.5 Plan for protecting & redepositing soils

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
7	7	Species selected for topsoil stockpile protection are marginal for erosion control. It is recommended that you replace crested wheatgrass (a bunchgrass) with intermediate wheatgrass (a rhizomatous grass) at the same seeding rate, and add a legume (such as Ladak alfalfa or yellow sweetclover) at 0.5 lbs per acre.	LK	

R647-4-109 - Impact Assessment

109.1 Impacts to surface & groundwater systems

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
8	Page 17	At the end of section 106.9 it states there are no treatment ponds associated with this operation when the plan includes the two ponds as treatment in the event of overflow of the quarry. It seems that this statement could be taken out.	TM	
9	Page 17	Please include prior to approval a copy of the Division of Water Quality- required Stormwater Pollution Prevention Plan in Appendix F.	TM	
10	Page 18	Under section 107.2 Drainages there is a reference to the 100 year-5 hour storm. It appears this should be the 100 year-6 hour storm.	TM	
11	Omission	Drainage 1 has associated sediment ponds; Drainage 2 has a reclamation plan, but nothing is mentioned in the plan associated with Drainage 2 during mining. Is all sediment runoff from the southern boundary of the property going into the back slope adjacent to Drainage 2 during construction and mining? Figure 1 would indicate that the drainage would flow towards Daniels Creek and US-40, and this is also indicated by Figure 3.	LAH	

R647-4-113 - Surety

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
12	Page 19 etc	Bond Calc does not include fuel, grease, oil tanks or several other facilities.	LAH	
13	Omission	Bond Calc does not include excavation costs if slope isn't at a 2H:1V slope, ie "during" mining at the worst case scenario.	LAH	